

Title (en)  
METHOD AND APPARATUS FOR ENCODING AND DECODING DATA

Title (de)  
VERFAHREN UND VORRICHTUNG ZUR CODIERUNG UND DECODIERUNG VON DATEN

Title (fr)  
PROCEDE ET APPAREIL DE CODAGE ET DE DECODAGE DE DONNEES

Publication  
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Application  
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Abstract (en)  
[origin: US7171603B2] A deterministic structure for controlled distribution of weight-2 columns is proposed for a parity-check matrix H that reduces the occurrence of undetected frame errors and significantly enhances the code performance in comparison to a randomly-constructed parity-check matrix. H comprises a non-deterministic section  $H_{<SUB>1</SUB>}$  and a deterministic section  $H_{<SUB>2</SUB>}$ , and wherein  $H_{<SUB>2</SUB>}$  comprises a first part comprising a column h having an odd weight greater than 2, and a second part comprising matrix elements for row i, column j equal to 1 for  $i=j$ , 1 for  $i=j+1$ , 0 elsewhere.

IPC 8 full level  
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